

Amendments to the claims (This listing replaces all prior versions)

1. (Currently amended) A method comprising:
when a termination occurs in a processor that uses a future file, accessing a future file
~~which is capable of being restored in a single clock cycle;~~ and restoring the future file over more
than one clock cycle ~~when a termination occurs~~ although the capability exists to restore the
future file in one clock cycle.
2. (Original) The method of Claim 1, further comprising maintaining the future file
in a pipelined processor,
3. (Original) The method of Claim 1, wherein restoring the future file comprises
updating at least some speculative registers in the future file with architectural values.
4. (Original) The method of Claim 1, wherein more than one clock cycle comprises
two clock cycles.
5. (Original) The method of Claim 1, wherein more than one clock cycle comprises
three clock cycles.
6. (Currently Amended) The method of Claim 1, wherein more than one clock cycle
comprises a number of clock cycles ~~it takes~~ required to flush a pipelined processor that uses the
future file.
7. (Currently amended) An apparatus comprising:

a control unit coupled to a first set of registers, a second set of registers and a pipeline, the control unit ~~capable of restoring the first registers with data contained in the second registers during a single clock cycle, but~~ adapted to restore the first set of registers with data contained in the second set of registers over more than one clock cycle following a termination of an instruction in the pipeline although the capability exists to restore the first set of registers with data contained in the second set of registers in one clock cycle.

8. (Original) The apparatus of Claim 7, wherein each register in the second set of registers is associated respectively with a register in the first set of registers.

9. (Original) The apparatus of Claim 7, wherein more than one clock cycle comprises two clock cycles.

10. (Original) The apparatus of Claim 7, wherein more than one clock cycle comprises three clock cycles.

11. (Original) The apparatus of Claim 7, wherein the control unit is further adapted to flush the pipeline following the termination of the instruction in the pipeline.

12. (Original) The apparatus of Claim 11, wherein more than one clock cycle comprises the number of clock cycles it takes to flush the pipeline.

13. (Original) The apparatus of Claim 12, the control unit further adapted to restore at least one register in the first set of registers after the pipeline has been flushed.

14. (Original) The apparatus of Claim 7 wherein the pipeline is an X-stage pipeline, the control unit adapted to restore the first set of registers with data contained in the second set of registers over X-N clock cycles or fewer, following a termination of an instruction in an Nth stage of the pipeline.

15. (Currently amended) A system comprising:

a static random access memory device;

a processor coupled to the static random access memory device, wherein the processor includes a first set of registers, a second set of registers, a pipeline and a control unit ~~capable of restoring the first registers with data contained in the second registers during a single clock cycle,~~ but adapted to restore at least some of the registers in the first set of registers with values in at least some of the registers in the second set of registers over more than one clock cycle if a termination occurs in the pipeline although the capability exists to restore the first set of registers with values in the second set of registers in one clock cycle.

16. (Original) The system of Claim 15, wherein more than one clock cycle comprises two clock cycles.

17. (Original) The system of Claim 15, wherein more than one clock cycle comprises three clock cycles.

18. (Original) The system of Claim 15, wherein the control unit is further adapted to flush the pipeline following the termination of the instruction in the pipeline.

19. (Original) The system of Claim 18, wherein more than one clock cycle comprises the number of clock cycles it takes to flush the pipeline.

20. (Original) The system of Claim 19, the control unit further adapted to restore at least one register in the first set of registers after the pipeline has been flushed.

21. (Original) The system of Claim 15, wherein the pipeline is an X-stage pipeline, and wherein the control unit is adapted to restore the first set of registers with data contained in the second set of registers over X-N clock cycles or fewer, following a termination of an instruction in an Nth stage of the pipeline.